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# **Imagery Analysis Monthly Review**

June 1979

**Top Secret** 

IS MR 79-005I



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National Foreign Assessment Center

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# **Imagery Analysis Monthly Review**

June 1979

The information and judgments presented in this publication were derived principally from analysis of imagery. Although information from other sources of intelligence may be included for background, this publication does not reflect an all-source assessment and has not been formally coordinated within CIA. (U)

Comments and queries on the contents of this publication are welcomed. They should be directed to the analyst whose name and green line extension appear after each article. (U)

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June 1979

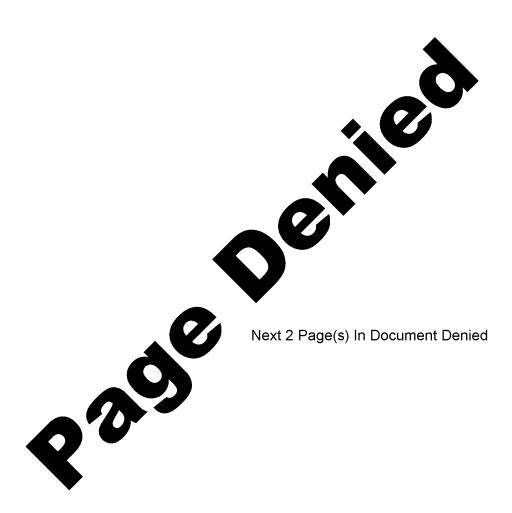
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#### Imagery Analysis Monthly Review

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| First Deployment of New Types of River-Crossing Equipment  Analysis of recent imagery reveals the Chinese have introduced two new types of river- and gap-crossing | 25      |
| equipment into their engineering units and may be developing a third.  | 25      |
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| The Chinese expanded their electric power generating capacity by almost one-third during the three-year period 1976-78.  | 25      |
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| USSR   |                     |
| Increased Effort in Advanced Transportation Systems  | 25X1                |
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| stone 3 kilometers from a quarry to a crushing and shipping facility. The Dzerzhinsk system consists of a pipeline which transports sand and gravel from a wharf on the Oka River to a concrete products plant at Dzerzhinsk, 7 kilometers away. Imagery of April 1979 revealed a second capsule-tube under construction at Dzerzhinsk. The second tube will parallel the first and will probably transport the same type of | 25X1<br>5X1<br>25X1 |
| The two capsule-tube systems at Shulaveri share a common loading   |                     |
| station for sand and gravel. One system extends 2 kilometers from the loading station to a railcar loading site, and the second extends 50 kilometers to a concrete products plant at Tbilisi.   | 25 <b>X</b> 1       |
| The newest system is located at Tula, south of Moscow. When complete, the system will transport sand and gravel approximately 4  | 25X1                |
|  |                     |
|  | 25X1<br>25X1        |
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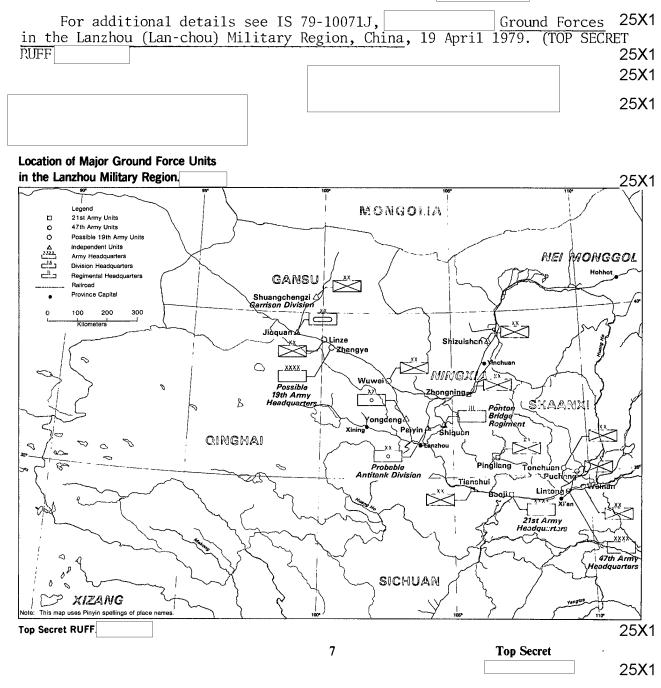
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| Top Secret RUFF  | 25 <b>X</b> 1 |
| <u>China</u>   |               |
| Ground Forces Strengthened in the Lanzhou Military Region  | 25X1          |
| A recently completed photographic analysis indicates that since 1975 the Chinese have strengthened their ground forces in the Lanzhou (Lan-chou) Military Region by forming two new divisions and increasing the firepower of the 11 existing ones. Ground forces improvements have been noted throughout the region, although the greatest emphasis has been in the north-central part, where the new divisions are located. The Chinese have strengthened their forces there to defend both the Gansu (Kansu) Corridor, through which run the primary lines of communication to west China, and the northern approaches to the city of Lanzhou. These force improvements are probably in reaction to a Soviet force buildup in Mongolia. | 25 <b>X</b> 1 |
| The two new divisions, not yet fully equipped, are an infantry division at Wuwei (Wu-wei) and a probable antitank division at Paiyin (Pai-yin). Elements of these two divisions were first identified in October 1976. These are the only new main force Chinese divisions formed along the Sino-Soviet border since the mid-1970s, although NSA reports that in early 1979 an infantry division relocated from the Chengdu (Cheng-tu) Military Region to the Xinjiang (Sinkiang) Military Region. The probable antitank division is only the fifth such division identified in China.   | 25X1          |
| Other improvements in the Lanzhou Military Region since 1975, achieved primarily by expanding previously existing armies and divisions, include:   |               |
| adding three more tank regiments to increase the total number of tanks from 250 to 500.  |               |
| increasing the number of multiple rocket launchers from about 40 to 200.   |               |
| doubling the number of AAA guns from 24 to 48 in each of the<br>region's three army-level AAA regiments. The additional guns<br>also are a qualitative improvement because they are radar-<br>controlled models not previously found in these units.   |               |
| increasing the number of ponton bridges from about 140 to 360. In addition, 18 KMM treadway bridges, not previously found in the region, have been added to the inventory.   |               |
| expanding the garrison division at Shuangchengzi (Shuang-cheng-tzu) from three to four regiments.  | 25 <b>X</b> 1 |
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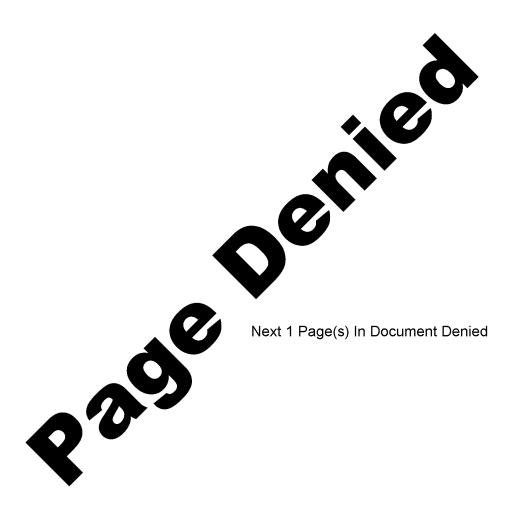
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Ground forces currently deployed in the region include three armies and several independent units. The 21st and 47th Armies each contain three infantry divisions and are deployed in the eastern part of the region. The other army, recently identified by NSA as possibly the 19th Army, appears to consist of two infantry divisions and is deployed along the Gansu Corridor. An armored division and a garrison division, also deployed in the Gansu Corridor, appear to be independent, although it is possible they are attached to the 19th Army. Known independent units, which are directly subordinate to the military region commander, are a field artillery division. an antitank division, an infantry division, and a ponton bridge regiment.



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| Top Secret RUFF  |   | 25 <b>X</b> 1           |
|  | China   | •                       |
|  |   |                         |
|  | First Deployment of New Types of River-Crossing Equipment   | 25X1                    |
| two new types of rive<br>units and may be deve<br>types of equipment we<br>ground force units.<br>quency of river-cross<br>ent ponton regiments  | tent imagery reveals that the Chinese have introduced ter- and gap-crossing equipment into their engineer reloping a third. Widespread deployment of these new rould improve the mobility and flexibility of China's In addition, recent increases in the size and fresing exercises and the expansion of several independent to division-size units show China's interest in and gap-crossing capabilities.  | 25X1                    |
| PPS-type heavy girde (Wu-han) Military Re April 1978 at Guangj being produced. Thi equipment presently   | 8, the first deployment in China of what appeared to be bridging was seen at an engineer unit in the Wuhan egion (MR). Pontons for this PPS-type bridge were seen i (Kuang-chi) Shipyard near Wuhan where they are probase bridge is capable of accommodating any type of milit in the Chinese inventory. Because of its size and conce heavy girder bridge is generally deployed in the reast the front.   | in<br>bly<br>ary<br>-   |
| North Korean S-type,<br>Army Headquarters in<br>was also seen in the<br>in the Xinjiang (Sin<br>likely be one of the<br>equipment, units in<br>equipment. This may<br>and that it has been | ry ponton bridge, similar to the Romanian PR-60 and the was seen in a ponton company subordinate to the 38th the Beijing (Peking) MR in April 1979. This equipment engineer battalion of an independent infantry division kiang) MR in May 1979. Although the 38th Army would efirst recipients of any new type of ground forces Xinjiang usually are not the first to recieve new indicate that use of this piece of equipment is wides in service for some time. This bridge is also capable of Chinese military equipment. | t<br>n<br>pread<br>e of |
| In late April 1 both an R&D facility has not been seen de assault bridge, which by the Chinese or gi   | 1977, a tank-launched assault bridge was seen at y and a military school near Beijing. This vehicle eployed to any regular unit. We are unsure if the ch appears similar to the Soviet MTU-54, was produced iven to them by the Soviet Union in the late 1950's. he assault bridge would provide Chinese armored units  | .25X1                   |
|  | rt-gap crossing capability.   | 25X1                    |
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| Top Secret  RUF   | 25 <b>X</b> 1        |
| <u>China</u>  |                      |
| Increase in Chinese Electric Power Generation Capacity, 1976-78   | 25 <b>X</b> 1        |
| A recently completed imagery analysis study reveals that the Chinese expanded their electric power generating capacity by a almost one-third during the three-year period 1976-78. Forty major new plants were completed and 51 existing ones were expanded. Most of the increased capacity was in thermal power. Throughout this period the Chinese continued to emphasize the installation of large-size generators at thermal power plantsmostly 100-, 125-, and 200-Megawatt (MW) units. The majority of China's thermal plants are fired with coal, most of the rest use oil, and only two plantsin Szechwanare gas fired. A number of thermal plants can burn either coal or oil. | n                    |
| A total of 291 major thermal and hydroelectric power plants (23-MW or more capacity) have been identified in China. No capacity figures are available for 12 of the hydroelectric power plants, but the total generating capacity of the remaining 279 plants is estimated from photography and other sources to be 40,840 MW (30,070 MW thermal and 10,770 MW hydroelectric). According to Chinese press reports, another 3,000 MW are generated by about 80,000 small hydroelectric power plants. An additional undetermined but relatively small amount is generated by numerous small thermal power plants.   |                      |
| Between January 1976 and December 1978, 23 new thermal power plants were completed and 43 existing plants were expanded, increasing the thermal electric generating capacity by about 7,455 MW. Another 2,050-MW increase is electric generating capacity can be attributed to hydroelectric power plants Seventeen new hydroelectric plants were completed and eight existing ones were enlarged during this period.   | n<br>25X1            |
| An additional 33 thermal and 16 hydroelectric power plants were being expanded or were still under construction at the end of 1978. The Chinese have announced that they plan to increase their generating capacity to 100,000 MW during the current Ten-Year Plan. This would mean more than doubling present capacity by 1985, which, based on projects now under way and past performance, is probably beyond China's capability.  |                      |
| For additional details see IS 79-10063K, 9, Chinese Electric Power Industry, January 1976 - December 1978, April 1979.  | 25X1<br>25X1<br>25X1 |
|   | 25 <b>X</b> 1        |
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| RUF        |   | 25 <b>X</b> 1  |
|            | New OIA Publications  | 25X1           |
|            | following reports have been published by the Office of Imagery since the last issue of the <u>Imagery Analysis Monthly Review</u> . |                |
| Imagery    | Research Papers   |                |
| 1.         | IS 79-10073K, Photographic Analysis of Soviet Nuclear Submarines and Major Surface Combatants Unavailable                           | 25 <b>X</b> 1  |
|            | for Operations. 1977-1978, May 1979 (TOP SECRET RUFF)   | 25X1<br>∠5X1   |
| 2.         | IS 79-10065K, Selected Geothermal Facilities in   | .25X1          |
|            | the Soviet Union, June 1979 (TOP SECRET RUFF)   | 25X1<br>25X1   |
| 3.         | IS 79-10087K, Imagery Analysis of the Probable  | 25X1           |
|            | Acoustical Test Area at the Kurumach Rocket Test Facility, USSR  June 1979 (TOP SECRET RUFF)  | 25X1           |
| 4.         | IS 79-10043K, An Imagery Analysis of the BMEW   | 25X1           |
|            | Radars at Pechora and Lyaki, USSR, June 1979 (TOP SECRET RUFF/  | 25X1           |
| Imagery A  | Analysis Memorandums  |                |
| 1.         | IS 79-10072K, SS-20 Regimental Vehicle Maintenance Facility (TOP SECRET RUFF)   | 25 <b>X</b> 1  |
| 2.         | IS 79-10074K, Summary of SAL-Related Activities   | 25 <b>X</b> 1  |
|            | (Missiles), 10 September 1978 - 15 March 1979 (TOP SECRET RUFF  | 25 <b>X</b> 1  |
| 3.         | IS 79-10084K, Steam Production Plants and Associated POL Storage Areas at SS-20 Bases in Western USSR (TOP SECRET RUFF)             | 25X1           |
| 4.         | IS 79-10085K Analysis of the Central Design Bureau for Space and Intercontinental Rockets, Moskva Missile and Space                 | ·25 <b>X</b> 1 |
|            | Development Center, Kaliningrad 88 (TOP SECRET RUFF/  | ,25 <b>X</b> 1 |
| 5.         | IS 79-10079K, Construction and Test Activity, Terminal Ballistic Research Laboratory, Chandigarh, India (TOP SECRET RUFF)           | 25X1           |
| 6.         | IS 79-10080K, Previously Undetected E-II-Class SSGN, Overhaul at Petrovka Ship Repair Yard, USSR (TOP SECRET RUFF)                  | 25 <b>X</b> 1  |
| 7.         | IS 79-10083K, History of Backfire Bombers with Modified Engine Inlets (TOP SECRET RUFF)   | 25 <b>X</b> 1  |
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| 8.  | IS 79-10086K, Reported Underwater Explosion Test Facility at Semipalatinsk Identified as a Grain Processing Yard (TOP SECRET RUFF) | 25 <b>X</b> 1 |
| 9.  | IS 79-10071J, Ground Forces in the Lanzhou (Lan-chou) Military Region, China (TOP SECRET RUFF)                                     | 25X1<br>25X1  |
| 10. | IS 79-10078K, South Yemini Ground Forces Deployment in Eastern PDRY (TOP SECRET RUFF)  | 25X1          |
| 11. | IS 79-10093K, Ground Forces Activity in Angola's Military Region 5 (TOP SECRET RUFF)   | 25X1<br>25X1  |
| 12. | IS 79-10081K, Status of Algerian Forces and Saharan Refugee Camps-Tindouf Area, Algeria (TOP SECRET RUFF)                          | 25 <b>X</b> 1 |

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